

PTO-1449

AUG 30 2004

Information Disclosure Citation  
in an Application

Application No.

09/870,450

Applicant(s)

Catherwood

Docket Number

068354.1447

Group Art Unit

2183

Filing Date

June 1, 2001

## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
RLE	A.	3771146	11/6/73	Cotton et al.	710	260	1/22/73
RLE	B.	3781810	12/25/73	Downing	<del>340</del>	<del>172.5</del>	4/26/72
	C.	3886524	5/27/75	Appelt	710	110	10/18/73
	D.	4025771	5/24/77	Lynch et al.	708	521	3/25/74
	E.	4074353	2/14/78	Woods et al.	710	264	3/24/76
	F.	4090250	5/16/78	Carlson et al.	712	234	9/30/76
	G.	4323981	4/6/82	Nakamura	<del>364</del>	<del>749</del>	10/23/78
	H.	4379338	4/5/83	Nishitani et al.	708	552	11/21/80
	I.	4398244	8/9/83	Chu et al.	<del>364</del>	<del>200</del>	5/7/80
	J.	4408274	10/4/83	Wheatley et al	<del>364</del>	<del>200</del>	9/29/80
	K.	4451885	5/29/84	Gerson et al.	708	200	3/1/82
	L.	4472788	9/18/84	Yamazaki	<del>364</del>	<del>900</del>	8/27/81
	M.	4481576	11/6/84	Bicknell	<del>364</del>	<del>200</del>	3/19/82
	N.	4488252	12/11/84	Vassar	<del>364</del>	<del>748</del>	2/22/82
RLE	O.	4511990	4/16/85	Hagiwara et al.	<del>364</del>	<del>748</del>	10/15/81

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
*	P.	01037424 A	2/1989	JP (w/abstract)	H03M	001/82		X
	Q.	0 554 917 A2	8/11/93	EP	G06F	9/26	X	
	R.	96/11443	4/18/96	WO	G06F	15/78	X	
	S.	0 859 643 A1	07/29/98	EP	G06F	9/30	X	
	T.	0 992 888	12/04/00	EP	G06F	9/32	X	
	U.	0 992 889	12/14/00	EP	G06F	9/32	X	

## NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

*	V.	Moon B I et al.: "A 32-bit RISC Microprocessor with DSP Functionality: Rapid Prototyping" IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Institute of Electronics Information and Comm. Eng. Tokyo, JP, vol. E84-A no. 5, pages 1339-1347, XP001060025 ISSN: 0916-8508	5/2001
	W.	Turley J. "Balancing Conflicting Requirements When Mixing RISC, DSPs" Computer Design, Pennwell Publ. Littleton, Massachusetts, US, vol. 37, no. 10, pages 46, 48, 50-53, XP000860706 ISSN:0010-4566	10/1998
	X.	Ley M: "Microprocessor and DSP Technologies Unite for Embedded Applications" EDN Electrical Design News, Cahners Publishing Co., Newtown Massachusetts, US, no. Europe, pages 73-74, 76, 78-80, XP000779113 ISSN: 0012-7515	3/2/1998

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DATE CONSIDERED

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PTO-1449 <b>Information Disclosure Citation in an Application</b>		Application No. 09/870,450		Applicant(s) Catherwood			
		Docket Number 068354.1447		Group Art Unit 2183	Filing Date June 1, 2001		
		U.S. PATENT DOCUMENTS					
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
RLE ↑	A.	4556938	12/3/85	Parker et al.	<del>364</del>	<del>200</del>	2/22/82
	B.	4626988	12/2/86	George	<del>364</del>	<del>200</del>	3/7/83
	C.	4730248	3/8/88	Watanabe et al.	<del>364</del>	<del>200</del>	8/30/84
	D.	4742479	5/3/88	Kloker et al.	<del>364</del>	<del>746</del>	3/25/85
	E.	4768149	8/30/88	Konopik et al.	<del>364</del>	<del>200</del>	8/29/85
	F.	4779191	10/18/88	Greenblatt	711	2	4/12/85
	G.	4782457	11/1/88	Cline	<del>364</del>	<del>715.04</del>	8/18/86
	H.	4800524	1/24/89	Roesgen	<del>364</del>	<del>000</del>	12/2/87
	I.	4807172	2/21/89	Nukiyama	<del>364</del>	<del>715.08</del>	2/17/87
	J.	4829420	5/9/89	Stahle	<del>364</del>	<del>200</del>	6/29/87
	K.	4829460	5/9/89	Ito	<del>364</del>	<del>715.08</del>	10/14/87
	L.	4839846	6/13/89	Hirose et al.	<del>364</del>	<del>748</del>	3/12/86
	M.	4841468	6/20/89	Miller et al.	708	625	3/20/87
	N.	4872128	10/3/89	Shimizu	<del>364</del>	<del>715.08</del>	2/17/88
	O.	4882701	11/21/89	Ishii	<del>364</del>	<del>000</del>	9/23/88
	P.	4926371	5/15/90	Vassiliadis et al.	708	628	12/28/88
	Q.	4941120	7/10/90	Brown et al.	<del>364</del>	<del>748</del>	4/17/89
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
RLE ↓	R.						
	S.						
NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)							
*	T.	Intel, Pentium Processor Family Developer's Manual, Volume 3: Architecture and Programming Manual, , Pages 3-1, 3-2, 3-15, 14-1 to 14-30, 18-7, and 25-289 to 25-292					1995
	U.	Intel, Embedded Intel486 Processor Family Developer's Manual, pgs. 2-2, 3-17, 3-37, 4-5, 4-6, 10-1 to 10-12, 12-1 to 12-10					10/1997
	V.	Moore, M "Z80 Family Interrupt Structure". Barleywood (online), retrieved from the Internet <URL: <a href="http://www.gaby.de/z80/1653.htm">http://www.gaby.de/z80/1653.htm</a> >					1997
	W.	PCT Search Report based on PCT/US02/16706, 6 pages					Mailed 9/27/02
	X.	PCT Search Report based on PCT/US02/16705, 7 pages					Mailed 9/9/02
	Y.	PCT Search Report based on PCT/US02/16921, 4 pages					Mailed 10/18/02
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RLE

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RLE

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	4943940	7/24/90	New	<del>364</del>	<del>748</del>	9/27/84
	B.	4959776	9/25/90	Deerfield et al.	<del>364</del>	<del>200</del>	12/5/88
	C.	4977533	12/11/90	Miyabayashi et al.	<del>364</del>	<del>720</del>	10/10/89
	D.	4984213	1/8/91	Abdoo et al.	<del>365</del>	<del>230-03</del>	2/21/89
	E.	5007020	4/9/91	Inskeep	<del>364</del>	<del>900</del>	5/7/90
	F.	5012441	4/30/91	Retter	<del>364</del>	<del>900</del>	11/24/86
	G.	5032986	7/16/91	Pathak et al.	<del>364</del>	<del>200</del>	9/22/89
	H.	5034887	7/23/91	Yasul et al.	<del>364</del>	<del>200</del>	7/27/90
	I.	5038310	8/6/91	Akagiri et al.	<del>364</del>	<del>745-04</del>	4/19/90
	J.	5040178	8/13/91	Lindsay et al.	<del>371</del>	<del>21-5</del>	5/12/89
	K.	5056004	10/8/91	Ohde et al.	<del>264</del>	<del>200</del>	10/14/88
	L.	5099445	3/24/92	Studor et al.	<del>364</del>	<del>745-08</del>	12/26/89
	M.	5101484	3/31/92	Kohn	<del>395</del>	<del>375</del>	2/14/89
	N.	5117498	5/26/92	Miller et al.	<del>395</del>	<del>773</del>	9/19/90
	O.	5121431	6/9/92	Wiener	713	174	7/2/90
	P.	5122981	6/16/92	Taniguchi	<del>364</del>	<del>748</del>	3/23/89
	Q.	5155823	10/13/92	Tsue	<del>395</del>	<del>400</del>	4/17/89
	R.	5177373	1/5/93	Nakamura	307	265	9/27/91
	S.	5197023	3/23/93	Nakayama	<del>364</del>	<del>748</del>	10/31/91
	T.	5197140	3/23/93	Balmer	<del>395</del>	<del>400</del>	11/17/89
	U.	5206940	4/27/93	Murakami et al.	<del>395</del>	<del>400</del>	8/27/91
	V.	5212662	5/18/93	Cocanougher et al.	<del>364</del>	<del>748</del>	9/11/90
	W.	5239654	8/24/93	Ing-Simmons et al.	<del>395</del>	<del>800</del>	11/17/89
	X.	5276634	1/4/94	Suzuki et al.	<del>364</del>	<del>748</del>	8/20/91

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							YES	NO
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## NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

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	09/870,450	Catherwood	
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	068354.1447	2183	June 1, 2001

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↑ RLE	A. 5282153	1/25/94	Bartkowiak et al.	<del>364</del>	<del>710</del>	4/6/93
	B. 5327543	7/5/94	Miura et al.	<del>395</del>	<del>375</del>	4/23/90
	C. 5327566	7/5/94	Forsyth	<del>395</del>	<del>775</del>	7/12/91
	D. 5375080	12/20/94	Davies	<del>364</del>	<del>736.5</del>	12/18/92
	E. 5379240	1/3/95	Byrne	<del>364</del>	<del>716.00</del>	3/8/93
	F. 5392435	2/21/95	Masui et al.	<del>395</del>	<del>725</del>	9/29/93
	G. 5418976	5/23/95	Iida	<del>395</del>	<del>800</del>	12/21/92
	H. 5422805	6/6/95	McIntyre et al.	708	625	10/21/92
	I. 5432943	7/11/95	Mitsuishi	<del>395</del>	<del>725</del>	4/19/93
	J. 5448703	9/5/95	Amini et al.	<del>395</del>	<del>290</del>	5/28/93
	K. 5448706	9/5/95	Fleming et al.	<del>395</del>	<del>421.07</del>	5/13/92
	L. 5463749	10/31/95	Wertheizer et al.	<del>395</del>	<del>437</del>	1/13/93
	M. 5469377	11/21/95	Amano	<del>364</del>	<del>740</del>	8/18/93
	N. 5471600	11/28/95	Nakamoto	<del>395</del>	<del>405</del>	2/22/95
	O. 5497340	3/5/96	Uramoto et al.	<del>364</del>	<del>745</del>	6/14/93
	P. 5499380	3/12/96	Iwata et al.	<del>395</del>	<del>800</del>	5/18/04
	Q. 5504916	4/2/96	Murakami et al.	<del>395</del>	<del>800</del>	9/28/93
	R. 5517436	5/14/96	Andreas et al.	<del>364</del>	<del>730</del>	6/7/94
	S. 5525874	6/11/96	Mallarapu et al.	<del>310</del>	<del>254</del>	1/30/95
	T. 5548544	8/20/96	Matheny et al.	<del>364</del>	<del>745</del>	10/14/94
	U. 5561619	10/1/96	Watanabe et al.	<del>364</del>	<del>736.5</del>	9/20/94
	V. 5564028	10/8/96	Swoboda et al.	<del>395</del>	<del>375</del>	1/11/94
↓ RLE	W. 5568380	10/22/96	Broadnax et al.	<del>364</del>	<del>184</del>	8/30/93

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E	A.	5568412	10/22/96	Han et al.	<del>364</del>	<del>748</del>	11/29/94
	B.	5596760	1/21/97	Ueda	<del>395</del>	<del>588</del>	12/9/92
	C.	5600813	2/4/97	Nakagawa et al.	<del>395</del>	<del>421.07</del>	2/9/93
	D.	5611061	3/11/97	Yasuda	<del>395</del>	<del>591</del>	11/24/93
	E.	5619711	4/8/97	Anderson	<del>395</del>	<del>800</del>	6/29/94
	F.	5638524	6/10/97	Kiuchi et al.	<del>395</del>	<del>375</del>	5/17/95
	G.	5642516	6/24/97	Hedayat et al.	<del>395</del>	<del>733</del>	10/14/94
	H.	5649146	7/15/97	Riou	<del>395</del>	<del>421.07</del>	3/30/95
	I.	5651121	7/22/97	Davies	<del>395</del>	<del>370</del>	12/18/92
	J.	5657484	8/12/97	Scarrá	<del>395</del>	<del>561</del>	12/27/94
	K.	5659700	8/19/97	Chen et al.	<del>395</del>	<del>421.07</del>	2/14/95
	L.	5682339	10/28/97	Tam	<del>364</del>	<del>715.00</del>	5/26/95
	M.	5689693	11/18/97	White	<del>395</del>	<del>565</del>	4/26/94
	N.	5694350	12/2/97	Wolrich et al.	<del>364</del>	<del>788</del>	6/30/95
	O.	5696711	12/9/97	Makineni	<del>364</del>	<del>748.03</del>	12/22/95
	P.	5706460	1/6/98	Craig et al.	<del>395</del>	<del>380</del>	3/19/91
	Q.	5706466	1/6/98	Dockser	<del>395</del>	<del>452</del>	1/13/95
	R.	5715470	2/3/98	Asano et al.	<del>395</del>	<del>800</del>	9/27/93
	S.	5737570	4/7/98	Koch	<del>395</del>	<del>872</del>	4/28/97
T.	5740095	4/14/98	Parant	<del>364</del>	<del>760</del>	7/12/95	
U.	5740419	4/14/98	Potter	<del>395</del>	<del>588</del>	7/22/96	
V.	5740451	4/14/98	Muraki et al.	<del>395</del>	<del>733</del>	10/28/96	
E	W.	5748516	5/5/98	Goddard et al.	<del>364</del>	<del>748.03</del>	9/26/95

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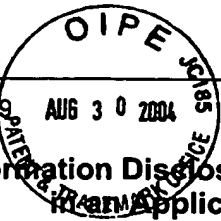
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RL E	A. 5748970	5/5/98	Miyaji et al.	<del>395</del>	<del>733</del>	4/30/96
	B. 5764555	6/9/98	McPherson et al.	<del>394</del>	<del>748.03</del>	3/13/96
	C. 5765216	6/9/98	Weng et al.	711	214	6/17/96
	D. 5765218	6/9/98	Ozawa et al.	711	219	3/10/95
	E. 5774711	6/30/98	Henry et al.	<del>395</del>	<del>591</del>	7/26/96
	F. 5778416	7/7/98	Harrison et al.	711	5	4/3/97
	G. 5790443	8/4/98	Shen et al.	<del>394</del>	<del>746</del>	3/19/96
	H. 5808926	9/15/98	Gorshtein et al.	<del>394</del>	<del>748.11</del>	9/24/96
	I. 5812439	9/22/98	Hansen	<del>394</del>	<del>748.03</del>	10/10/95
	J. 5812868	9/22/98	Moyer et al.	<del>395</del>	<del>800.23</del>	9/16/96
	K. 5825730	10/20/98	Nishida et al.	369	44.32	3/8/96
	L. 5826072	10/20/98	Knapp et al.	<del>395</del>	<del>507</del>	11/13/95
	M. 5826096	10/20/98	Baxter	<del>395</del>	<del>800.24</del>	5/19/95
	N. 5828875	10/27/98	Halvarsson et al.	<del>395</del>	<del>588</del>	5/29/97
	O. 5862085	1/19/99	Muthusamy	<del>364</del>	<del>736.5</del>	2/13/97
	P. 5867726	2/2/99	Ohsuga et al.	<del>395</del>	<del>800.32</del>	4/10/96
	Q. 5875342	2/23/99	Temple	<del>395</del>	<del>733</del>	6/3/97
	R. 5880984	3/9/99	Burchfiel et al.	<del>394</del>	<del>748.07</del>	1/13/97
	S. 5892697	4/6/99	Brakefield	<del>364</del>	<del>748.02</del>	12/19/95
	T. 5892699	4/6/99	Duncan et al.	<del>394</del>	<del>700.4</del>	9/16/97
	U. 5894428	4/13/99	Harada	<del>394</del>	<del>724.03</del>	7/28/97
	V. 5900683	5/4/99	Rinehart et al.	307	126	12/23/97
RL E	W. 5909385	6/1/99	Nishiyama et al.	<del>394</del>	<del>700.03</del>	4/1/97

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E	A.	5917741	6/29/99	Ng	<del>364</del>	<del>748.03</del>	8/29/96
	B.	5918252	6/29/99	Chen et al.	711	217	11/25/96
	C.	5930159	7/27/99	Wong	<del>364</del>	<del>745.01</del>	10/17/96
	D.	5930503	7/27/99	Drees	<del>395</del>	<del>654</del>	12/29/95
	E.	5936870	8/10/99	Im, Jin Hyeock	<del>364</del>	<del>745.03</del>	8/15/97
	F.	5937199	8/10/99	Temple	<del>395</del>	<del>335</del>	6/3/97
	G.	5938759	8/17/99	Kamijo	712	209	12/19/97
	H.	5941940	8/24/99	Prasad et al.	708	523	6/30/97
	I.	5943249	8/24/99	Handlogten	<del>364</del>	<del>748.02</del>	4/25/97
	J.	5944816	8/31/99	Dutton et al.	712	215	5/17/96
	K.	5951627	9/14/99	Klamilev et al.	708	404	11/14/96
	L.	5951679	9/14/99	Anderson, et al.	712	241	10/31/97
	M.	5978825	11/2/99	Divine et al.	708	525	11/14/97
	N.	5983333	11/9/99	Kolagotia et al.	711	219	8/27/97
	O.	5991787	11/23/99	Abel et al.	708	400	12/31/97
	P.	5991868	11/23/99	Kamiyama et al.	712	32	5/19/94
	Q.	5996067	11/30/99	White	712	224	10/28/97
	R.	6009454	12/28/99	Dummermuth	709	108	11/10/97
	S.	6014723	1/11/00	Tremblay et al.	711	1	1/23/97
T.	6018757	1/25/00	Wong	708	525	8/8/96	
U.	6026489	2/15/00	Wachl et al.	712	241	4/26/95	
V.	6044392	3/28/00	Anderson et al.	708	551	8/4/97	
E	W.	6044434	3/28/00	Oliver	711	110	9/24/97

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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PTO-1449

**Information Disclosure Citation  
in an Application**

Application No.

09/870,450

Docket Number

068354.1447

Applicant(s)

Catherwood

Group Art Unit

2183

Filing Date

June 1, 2001

## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
✓	A.	6049858	4/11/00	Kolagotia et al.	711	217	8/27/97
	B.	6058409	5/2/00	Kozaki et al.	708	409	8/5/97
	C.	6058410	5/2/00	Sharangpani	708	551	12/2/96
	D.	6058464	5/2/00	Taylor	711	217	7/9/96
	E.	6061711	5/9/00	Song et al.	709	108	8/19/96
	F.	6061780	5/9/00	Shippy et al.	712	204	1/23/98
	G.	6061783	5/9/00	Harriman	712	224	11/13/96
	H.	6076154	6/13/00	Van Eindhoven et al	712	24	1/16/98
	I.	6084880	7/4/00	Bailey et al.	370	395	6/30/97
	J.	6101521	8/8/00	Kosiec	708	550	3/25/98
	K.	6101599	8/8/00	Wright et al.	712	228	6/29/98
	L.	6115732	9/5/00	Oberman et al.	708	625	5/8/98
	M.	6128728	10/3/00	Dowling	712	228	12/12/97
	N.	6134574	10/17/00	Oberman et al.	708	551	5/8/98
	O.	6144980	11/7/00	Oberman	708	627	1/28/98
	P.	6145049	11/7/00	Wong	710	267	12/29/97
	Q.	6181151	1/30/01	Wasson	324	765	10/28/98
	R.	6205467	3/20/01	Lambrech et al.	709	108	11/14/95
	S.	6209086	3/27/01	Chi et al.	712	244	11/10/98
	T.	6243786	6/5/01	Huang et al.	710	262	12/23/98
	U.	6243804	6/5/01	Cheng	712	228	7/22/98
	V.	6260162	7/10/01	Typaldos et al.	714	55	10/31/98
✓	W.	6292866	9/18/01	Zaiki et al.	710	264	3/30/99

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PTO-1449

**Information Disclosure Citation  
in an Application**

Application No.

09/870,450

Applicant(s)

Catherwood

Docket Number

068354.1447

Group Art Unit

2183

Filing Date

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## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
✓	A.	6295574	9/25/01	MacDonald	710	261	1/20/00
	B.	6315200	11/13/01	Silverbrook et al.	235	454	7/10/98
	C.	6356970	3/12/02	Killian et al.	710	269	5/28/99
	D.	6377619	4/23/02	Denk et al.	375	232	9/26/97
	E.	6397318	5/28/02	Peh	711	220	4/2/98
	F.	6412081	6/25/02	Koscal et al.	714	34	1/15/99
	G.	6487654	11/26/02	Dowling	712	244	12/12/01
	H.	2002/0194466	12/19/02	Catherwood et al.	712	241	6/1/01
	I.	6523108	2/18/03	James et al.	712	224	11/23/99
	J.	6564238	5/13/03	Kim et al.	708	513	2/2/00
	K.	2003/0093656	5/15/03	Masse et al.	712	241	10/1/99
	L.	6633970	10/14/03	Clift et al.	712	217	12/28/99
	M.	6658578	12/2/03	Laurenti et al.	713	324	10/1/99
	N.	6681280	1/20/04	Miyake et al.	710	261	10/4/00
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PTO-1449  <b>Information Disclosure Citation in an Application</b> SEP 28 '04		Application No. 09/870,450		Applicant(s) Michael I. Catherwood	
		Docket Number 068354.1447		Group Art Unit 2183	Filing Date June 1, 2001

U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
RE	A.	4615005	9/30/86	Maejima et al.	713	601	7/20/84
RE	B.	5778237	7/7/98	Yamamoto et al.	713	322	12/14/95
RE	C.	5815693	9/29/98	McDermott et al.	713	501	12/15/95
RE	D.	6202163	3/13/01	Gabzdyl et al.	713	324	3/10/98
RE	E.	6751742	6/15/04	Duhault et al.	713	323	8/31/99
RE	F.	6763478	7/13/04	Vinh X. Bui	713	600	10/24/00
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PTO-1449 <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; transform: rotate(-45deg); transform-origin: center;">           OIP            OCT 25 2004            PATENT &amp; TRADEMARK OFFICE         </div> Information Disclosure Citation in an Application		Application No. 09/870,450		Applicant(s) Michael I. Catherwood	
Docket Number 068354.1447		Group Art Unit 2183		Filing Date June 1, 2001	

U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
RE	A.	4945507	7/31/90	Ishida et al.	708	530	6/12/89
RE	B.	5701493	12/23/97	Jaggar	395	734	8/3/95
RE	C.	5386563	1/31/95	Thomas, deceased	395	650	10/13/92
RE	D.	6694398	2/17/04	Zhao et al.	710	260	4/30/01
RE	E.	5623646	4/22/97	Clarke	395	560	9/12/95
RE	F.	4709324	11/24/87	Kloker	364	200	11/27/85
RE	G.	5561384	10/1/96	Reents et al.	327	108	11/8/95
RE	H.	5450027	9/12/95	Gabara	326	98	4/8/94
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